I claim:

- 1. A method of identifying problems in applications, comprising:
- 5 monitoring at a kernel level system resource usage of one or more running applications without modifying run-time environments of the running applications; and

identifying from the monitored system usage, an application whose system usage pattern satisfies a predetermined criteria associated with one or more problems.

- 2. The method of claim 1, wherein the system resource usage comprises one or more processes that the one or more running applications have spawned.
 - 3. The method of claim 1, wherein the system resource usage comprises central processing unit usage of the one or more running applications.

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- 4. The method of claim 1, wherein the system resource usage comprises memory usage of the one or more running applications.
- 5. The method of claim 1, further comprising: producing an output comprising at least the system resource usage associated with each of the one or more running applications.
- 30 6. The method of claim 5, wherein the identifying comprises:

identifying from the output an application whose system resource usage pattern satisfies a predetermined criteria associated with one or more problems.

- 7. The method of claim 6, wherein the predetermined criteria is an increase in amount of the system resource usage from a first period to a second period.
- 8. The method of claim 6, wherein the predetermined criteria is a continuous increase in amount of the system resource usage from a first period to a second period.
 - 9. The method of claim 1, wherein the monitoring comprises:
- using an available kernel level tool to obtain data associated with the system resource usage.
 - 10. The method of claim 1, wherein the monitoring comprises:
- using an available kernel level tool to obtain data that includes the system resource usage; and filtering the data to obtain a selected system resource usage.
- 25 11. The method of claim 10, wherein the identifying comprises at least:

using the filtered data to identify an application whose system resource usage pattern satisfies a predetermined criteria associated with one or more problems.

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12. A method of identifying memory problems in applications, comprising:

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monitoring at a kernel level memory usage of a running application without modifying a run-time environment of the running application; and

producing an output comprising at least the memory usage.

- 13. The method of claim 12, further comprising:
 10 analyzing the output to identify a memory problem.
 - 14. A method of identifying memory problems in applications, comprising:

monitoring at a kernel level memory usage of one or

15 more running applications without modifying run-time
environments of the running applications;

producing an output comprising at least the memory usage of one or more running applications; and

identifying from the output, an application whose memory usage pattern satisfies a predetermined criteria associated with one or more memory problems.

- 15. A method of identifying memory problems in applications, comprising:
- 25 monitoring at a kernel level memory usage of one or more running applications without modifying run-time environments of the running applications; and

identifying from the monitored memory usage, an application whose memory usage pattern satisfies a predetermined criteria associated with one or more memory problems.

- 16. The method of claim 15, wherein the monitored memory usage comprises at least a stack memory, data memory, and text memory.
- 5 17. A method of identifying memory problems in applications, comprising:

collecting system resource usage at a kernel level of one or more running applications without modifying run-time environments of the running applications; and

- identifying from the collected system resource usage, an application whose system resource usage pattern satisfies a predetermined criteria associated with one or more system resource usage problems.
- 15 18. A system for identifying problems in applications, comprising:
 - a data collection module operable to retrieve information about a running application at a kernel level; and
- a data analysis module operable to determine from the retrieved information an abnormal system usage pattern in the information.
- 19. A program storage device readable by machine,
 25 tangibly embodying a program of instructions executable by the machine to perform method steps of identifying problems in applications, comprising:

monitoring at a kernel level system resource usage of one or more running applications without modifying run-time environments of the running applications; and

identifying from the monitored system usage, an application whose system usage pattern satisfies a

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predetermined criteria associated with one or more problems.

20. The program storage device of claim 19, wherein 5 the system resource usage is memory usage, CPU usage, or one or more spawned processes, or combinations thereof.

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